11-5-04



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Kolosov et al.

Serial No.:

10/804,446

Filed: 03/19/2004

For: MECHANICAL RESONATOR

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Group Art Unit: 2856

Examiner: Unknown

INFORMATION DISCLOSURE STATEMENT

Applicants submit this statement in accordance with their duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

A listing of the references on forms PTO/SB/08A and PTO/SB/08B are submitted herewith. Copies of the U.S. references have not been provided because its filing date falls after June 30, 2003. Applicants respectfully solicit the Examiner's consideration of the cited references and entry thereof into the record of this application.

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Application Number	10/804,446						
Filing Date	3/19/04						
First Named Inventor	Kolosov et al.						
Group Art Unit							
Examiner Name							
Attorney Docket Number	1012-189						

				U.S. PATENT DOC	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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			EP 0102490		Bopp & Reuther GMBH	03/14/1984		
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First Named Inventor Kolosov

Art Unit Examiner Name

Sheet 1 of 1 Attorney Docket Number 1012.189

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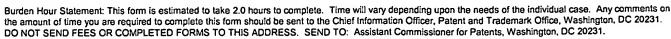
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Application Number	10/804,446					
Filing Date	3/19/04					
First Named Inventor	Kolosov					
Group Art Unit						
Examiner Name						
Attorney Docket Number	1012-189					

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Examiner Initials	Cite No.1	U.S. Patent I	Nocument Kind Code ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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First Named Inventor	Kolosov		
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Examiner Name			
Attorney Docket Number	1012-189		

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1			WO 01/77624		The Charles Stark Draper	10/18/2001			
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Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		US- 6,223,589	05/01/2001	Dickert et al.			
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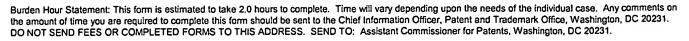
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10/804,446 **Application Number** 3/19/04 Filing Date Kolosov First Named Inventor Group Art Unit **Examiner Name** Attorney Docket Number

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Complete if Known **Application Number** 10/804,446 3/19/04 Filing Date Kolosov First Named Inventor Group Art Unit **Examiner Name** Attorney Docket Number 1012-189

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		LI et al., Electromechanical Behavior of PZT-Brass Unimorphs, Journal of the American Ceramic Society, Vol. 82, No. 7, 1999, pages 1733-1740.				
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International Search Report mailed July 9, 2004, PCT/US2004/008531 (1012.188WC						
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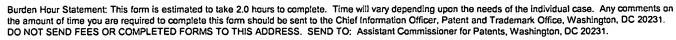
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		U.S. Application Serial No. 09/420,334 entitled " Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 18, 1999	
		U.S. Patent Application Serial No. 09/305,830 titled "Synthesizing Combinatorial Libraries of Materials" (Rust, et al.) filed on May 5, 1999	
		U.S. Application Serial No. 09/755,623 entitled "Laboratory Database System and Methods For Combinatorial Materials Research" (Dorsett, Jr., et al.) filed on January 5, 2001.	
		The family of applications for U.S. Patent Application Serial No. 09/174,856 titled "Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 19, 1998.	
		U.S. Application Serial No. 09/550,549 entitled "Automated Process Control And Data Management System And Methods" (Crevier, et al.) filed on April 14, 2000.	
		U.S. Patent Application Serial No. 09/800,819 entitled "Method and Apparatus for Characterizing Materials by Using a Mechanical Resonator" filed on March 7, 2001.	
		U.S. Patent Application Serial No. 09/580,024 entitled "Instrument for High Throughput Measurement of Material Physical Properties and Method of Using the Same" filed on May 26, 2000.	
		U.S. Patent Application Serial No. 10/155,207 entitled "High Throughput Microbalance and Methods of Using Same" filed on May 24, 2002.	
		U.S. Patent Application Serial No. 09/285,963 entitled "Rapid Characterization of Polymers" (Safir et al.) filed on April 2, 1999.	
		PCT International Search Report, dated 21 October 2002, PCT/US02/17780 (1012-167WO)	

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		GRATE et al., "Smart Sensor System for Trace Organophosphorsu"									
		KARRAI, "Lecture Notes on Shear and Friction Force Detection", March 2000									
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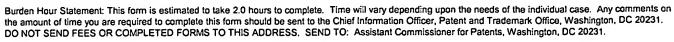
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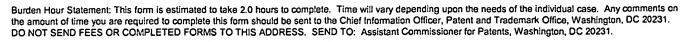
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		"Cantilever Sensor Research Tool for Science and Industry", diScentris, Veeco.			
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 		"Theory of the Vibrating Tuning Fork Fluid Density Tool", www. lancs.ac.uk, page 1, accessed on May 7, 2003.	
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		"SOS-Smart Oil Sensor", Impact Technologies, LLC.	
		Pamphlet by Kavlico-A Solectron Company, Capability Brochure Industrial Sensors and Transducers.	
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		SMITH et al., Water Sorption Isotherms and Enthalpies of Water Sorption by Lysozyme Using the Quartz Crystal Microbalance/heat Conduction Calorimeter, BIOCHIMICA et BIOPHYSICA ACTA, October 4, 2001, pages 150-159.						
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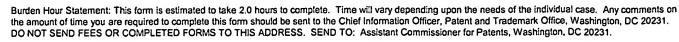
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		Zhang et al.: "Determination of Liquid density with a low frequency mechanical sensor based on quartz tuning fork" Sensors and Actuators B, Elsevier Sequoia S.A. Lausanne, CH. vol. 84, no. 2-3, May 15, 2002, pages 123-128.		
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